

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Flaherty, J. Christopher

Application No./Patent No.: 10/714,155

Filed/Issue Date: November 14, 2003

Titled:

Tissue Penetrating Catheters Having Integral Imaging Transducers and Their Methods of Use

Medtronic Vascular, Inc.

, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
 2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %), or
 3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)
- the patent application/patent identified above, by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 015000, Frame 0001, or for which a copy therefore is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

William L Haynes
Signature

7/30/2009
Date

William L Haynes
Printed or Typed Name

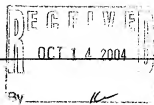
Senior Patent Counsel
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



AUGUST 18, 2004

PTAS



102681675A

STOUT, UXA, BUYAN, ET.AL.
ROBERT D. BUYAN
4 VENTURE SUITE 300
IRVINE, CA 92618

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/26/2004

REEL/FRAME: 015000/0001
NUMBER OF PAGES: 20

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
TRANSVASCULAR, INC.

DOC DATE: 09/09/2003

ASSIGNEE:
MEDTRONIC VASCULAR, INC.
3576 UNOCAL PLACE
SANTA ROSA, CALIFORNIA 95403

SERIAL NUMBER: 09708923

FILING DATE: 11/08/2000

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR BYPASSING ARTERIAL OBSTRUCTIONS AND/OR PERFORMING OTHER TRANSVASCULAR PROCEDURES

SERIAL NUMBER: 10425543

FILING DATE: 04/29/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR BYPASSING ARTERIAL OBSTRUCTIONS AND/OR PERFORMING OTHER TRANSVASCULAR PROCEDURES

7499 pro
 SERIAL NUMBER: 60005164 FILING DATE: 10/13/1995
 PATENT NUMBER: ISSUE DATE:
 TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

7200 con2
 SERIAL NUMBER: 09181701 FILING DATE: 10/28/1998
 PATENT NUMBER: 6746464 ISSUE DATE: 06/08/2004
 TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

7200 con2
 SERIAL NUMBER: 10640998 FILING DATE: 08/14/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

7201 pro
 SERIAL NUMBER: 60010614 FILING DATE: 02/02/1996
 PATENT NUMBER: ISSUE DATE:
 TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

7201 con1
 SERIAL NUMBER: 10425756 FILING DATE: 04/29/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

7202 pro
 SERIAL NUMBER: 60028922 FILING DATE: 08/26/1996
 PATENT NUMBER: ISSUE DATE:
 TITLE: METHODS AND APPARATUS FOR TRANSMYOCARDIAL DIRECT CORONARY REVASCULARIZATION

7202 us
 SERIAL NUMBER: 08837295 FILING DATE: 04/11/1997
 PATENT NUMBER: ISSUE DATE:
 TITLE: METHODS AND APPARATUS FOR TRANSMYOCARDIAL DIRECT CORONARY REVASCULARIZATION

7202 con1
 SERIAL NUMBER: 09710332 FILING DATE: 11/09/2000
 PATENT NUMBER: ISSUE DATE:
 TITLE: METHODS AND APPARATUS FOR TRANSMYOCARDIAL DIRECT CORONARY REVASCULARIZATION

7202 con2
 SERIAL NUMBER: 09994222 FILING DATE: 11/26/2001
 PATENT NUMBER: ISSUE DATE:
 TITLE: METHODS AND APPARATUS FOR TRANSMYOCARDIAL DIRECT CORONARY REVASCULARIZATION

7202 con3
 SERIAL NUMBER: 10150306 FILING DATE: 05/16/2002
 PATENT NUMBER: ISSUE DATE:
 TITLE: METHODS AND APPARATUS FOR TRANSMYOCARDIAL DIRECT CORONARY REVASCULARIZATION

7202 us
 SERIAL NUMBER: 10436016 FILING DATE: 05/12/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: METHODS AND APPARATUS FOR CONNECTING OPENINGS FORMED IN ADJACENT BLOOD VESSELS OR OTHER ANATOMICAL STRUCTURES

SERIAL NUMBER: 09912122 FILING DATE: 07/24/2001
 PATENT NUMBER: ISSUE DATE:
 TITLE: CATHETERS AND RELATED DEVICES FOR FORMING PASSAGEWAYS BETWEEN BLOOD VESSELS OR OTHER ANATOMICAL STRUCTURES

SERIAL NUMBER: 10259210 FILING DATE: 09/27/2002
 PATENT NUMBER: ISSUE DATE:
 TITLE: TRANSLUMINAL METHODS AND DEVICES FOR CLOSING, FORMING ATTACHMENTS TO, AND/OR FORMING ANASTOMOTIC JUNCTIONS IN, LUMINAL ANATOMICAL STRUCTURES

SERIAL NUMBER: 09911975 FILING DATE: 07/24/2001
 PATENT NUMBER: ISSUE DATE:
 TITLE: DEVICES FOR FORMING AND/OR MAINTAINING CONNECTIONS BETWEEN ADJACENT ANATOMICAL CONDUITS

SERIAL NUMBER: 09845372 FILING DATE: 04/30/2001
 PATENT NUMBER: ISSUE DATE:
 TITLE: DEVICES FOR FORMING AND/OR MAINTAINING CONNECTIONS BETWEEN OPENINGS IN AN ANATOMICAL CONDUITS

SERIAL NUMBER: 10346556 FILING DATE: 01/17/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: TRANSLUMINAL DEVICES, SYSTEMS AND METHODS FOR ENLARGING INTERSTITIAL PENETRATION TRACTS

SERIAL NUMBER: 10370429 FILING DATE: 02/20/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: CATHETERS, SYSTEMS AND METHODS FOR PERCUTANEOUS IN SITU ARTERIO-VEINOUS BYPASS

SERIAL NUMBER: 10033836 FILING DATE: 12/26/2001
 PATENT NUMBER: 6660024 ISSUE DATE: 12/09/2003
 TITLE: TISSUE PENETRATING CATHETERS HAVING INTEGRAL IMAGING TRANSDUCERS AND THEIR METHODS OF USE

SERIAL NUMBER: 09538119 FILING DATE: 03/29/2000
 PATENT NUMBER: 6726677 ISSUE DATE: 04/27/2004
 TITLE: STABILIZED TISSUE PENETRATING CATHETERS

SERIAL NUMBER: 09960003 FILING DATE: 09/21/2001
 PATENT NUMBER: 6669709 ISSUE DATE: 12/30/2003
 TITLE: CATHETER APPARATUS AND METHODOLOGY FOR GENERATING A FISTULA ON-DEMAND BETWEEN CLOSELY ASSOCIATED BLOOD VESSELS AT A PRE-CHOSEN ANATOMIC SITE IN-VIVO

SERIAL NUMBER: 09613675 FILING DATE: 07/11/2000
 PATENT NUMBER: 6746426 ISSUE DATE: 06/08/2004
 TITLE: TRANSLUMINALLY DELIVERABLE VASCULAR BLOCKERS AND METHODS FOR FACILITATING RETROGRADE FLOW OF ARTERIAL BLOOD THROUGH VEINS

SERIAL NUMBER: 09320172 FILING DATE: 05/26/1999
 PATENT NUMBER: ISSUE DATE:
 TITLE: APPARATUS FOR PROVIDING CORONARY RETROPERFUSION AND METHODS OF USE

P2035 con-1
 SERIAL NUMBER: 09794297 FILING DATE: 02/27/2001
 PATENT NUMBER: ISSUE DATE:
 TITLE: APPARATUS FOR PROVIDING CORONARY RETROPERFUSION AND/OR LEFT VENTRICULAR ASSIST AND METHODS FOR USE

P2033.01 CIP 1
 SERIAL NUMBER: 10466622 FILING DATE: 03/01/2004
 PATENT NUMBER: ISSUE DATE:
 TITLE: DEVICES, SYSTEMS AND METHODS FOR ACUTE OR CHRONIC DELIVERY OF SUBSTANCES OR APPARATUS TO EXTRAVASCULAR TREATMENT SITES

P2033.01 CIP-1
 SERIAL NUMBER: 10458153 FILING DATE: 06/10/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: METHODS AND APPARATUS FOR ACUTE OR CHRONIC DELIVERY OF SUBSTANCES OR APPARATUS TO EXTRAVASCULAR TREATMENT SITES

P2044 US
 SERIAL NUMBER: 10467274 FILING DATE: 03/12/2004
 PATENT NUMBER: ISSUE DATE:
 TITLE: METHODS AND APPARATUS FOR GUIDED TRANSLUMINAL INTERVENTIONS USING VESSEL WALL PENETRATING CATHETERS AND OTHER APPARATUS

P2025 US
 SERIAL NUMBER: 09860147 FILING DATE: 05/17/2001
 PATENT NUMBER: 6709444 ISSUE DATE: 03/23/2004
 TITLE: METHODS FOR BYPASSING TOTAL OR NEAR-TOTAL OBSTRUCTIONS IN ARTERIES OR OTHER ANATOMICAL CONDUITS

(NOT OR CASE)
P2025 CIP-2
 SERIAL NUMBER: 10370201 (10/370,231)⁷ FILING DATE: 02/20/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: METHOD AND SYSTEM FOR SCREENING REMOTE SITE CONNECTIONS AND FILTERING DATA BASED ON A COMMUNITY TRUST ASSESSMENT

P2026 CIP
 SERIAL NUMBER: 10391481 FILING DATE: 03/17/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: IMPLANTABLE LUMEN OCCLUDING DEVICES AND METHODS

P2027 US
 SERIAL NUMBER: 10411891 FILING DATE: 04/11/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: DEVICES AND METHODS FOR TRANSLUMINAL OR TRANSTHORACIC INTERSTITIAL ELECTRODE PLACEMENT

P2027 P20
 SERIAL NUMBER: 60455015 FILING DATE: 03/13/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: OPTICALLY GUIDED PENETRATION CATHETERS AND THEIR METHODS OF USE

P2030.01 DN 1
 SERIAL NUMBER: 09826049 FILING DATE: 04/03/2001
 PATENT NUMBER: 6685648 ISSUE DATE: 02/03/2004
 TITLE: SYSTEMS AND METHODS FOR DELIVERING DRUGS TO SELECTED LOCATIONS WITHIN THE BODY

P2031 DN2
 SERIAL NUMBER: 10617105 FILING DATE: 07/09/2003
 PATENT NUMBER: ISSUE DATE:
 TITLE: DEFORMABLE SCAFFOLDING MULTICELLULAR STENT

(NOT ON CASE) *7203205*
 SERIAL NUMBER: 09748109 *(09/478109)* FILING DATE: 12/27/2000
 PATENT NUMBER: ISSUE DATE:
 TITLE: OXIDATION APPARATUS AND METHOD OF CLEANING THE SAME

7203905
 SERIAL NUMBER: 09539639 FILING DATE: 03/30/2000
 PATENT NUMBER: ISSUE DATE:
 TITLE: APPARATUS AND METHODS FOR CREATING A CHANNEL BETWEEN ADJACENT BODY LUMENS

72034 CP
 SERIAL NUMBER: 09179737 FILING DATE: 10/27/1998
 PATENT NUMBER: 6379319 ISSUE DATE: 04/30/2002
 TITLE: SYSTEMS AND METHODS FOR DIRECTING AND SNARING GUIDEWIRES

72034 DW1
 SERIAL NUMBER: 10136929 FILING DATE: 04/30/2002
 PATENT NUMBER: ISSUE DATE:
 TITLE: SYSTEMS AND METHODS FOR DIRECTING AND SNARING GUIDEWIRES

71999 US
 SERIAL NUMBER: 08730327 FILING DATE: 10/11/1996
 PATENT NUMBER: 6190353 ISSUE DATE: 02/20/2001
 TITLE: METHODS AND APPARATUS FOR BYPASSING ARTERIAL OBSTRUCTIONS AND/OR PERFORMING OTHER TRANSVASCULAR PROCEDURES

71999 DW1
 SERIAL NUMBER: 09639963 FILING DATE: 08/16/2000
 PATENT NUMBER: 6655386 ISSUE DATE: 12/02/2003
 TITLE: TRANSLUMINAL METHOD FOR BYPASSING ARTERIAL OBSTRUCTIONS

72000 US
 SERIAL NUMBER: 08730496 FILING DATE: 10/11/1996
 PATENT NUMBER: 5830222 ISSUE DATE: 11/03/1998
 TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

72000 CP1
 SERIAL NUMBER: 09192554 FILING DATE: 08/10/1998
 PATENT NUMBER: 6283983 ISSUE DATE: 09/04/2001
 TITLE: PERCUTANEOUS IN-SITU CORONARY BYPASS METHOD AND APPARATUS

72000 COM1
 SERIAL NUMBER: 09179809 FILING DATE: 10/27/1998
 PATENT NUMBER: 6068638 ISSUE DATE: 05/30/2000
 TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

72000 DW1
 SERIAL NUMBER: 09181013 FILING DATE: 10/27/1998
 PATENT NUMBER: 6159225 ISSUE DATE: 12/12/2000
 TITLE: A DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

72000 DW3
 SERIAL NUMBER: 09267943 FILING DATE: 03/11/1999
 PATENT NUMBER: 6231587 ISSUE DATE: 05/15/2001
 TITLE: DEVICES FOR CONNECTING ANATOMICAL CONDUITS SUCH AS VASCULAR STRUCTURES

(NOT ON CASE) *72001 US*
 SERIAL NUMBER: 10095565 FILING DATE: 03/13/2002
 PATENT NUMBER: 6567311 *6,579,311* ISSUE DATE: 05/20/2003
 TITLE: NONVOLATILE MEMORY SYSTEM, SEMICONDUCTOR MEMORY, AND WRITING METHOD

7205 JS
 SERIAL NUMBER: 09117520 FILING DATE: 03/17/1999
 PATENT NUMBER: 6616675 ISSUE DATE: 09/09/2003
 TITLE: METHODS AND APPARATUS FOR CONNECTING OPENINGS FORMED IN ADJACENT BLOOD VESSELS OR OTHER ANATOMICAL STRUCTURES

7204 CIP
 SERIAL NUMBER: 08837294 FILING DATE: 04/11/1997
 PATENT NUMBER: 6302875 ISSUE DATE: 10/16/2001
 TITLE: CATHETERS AND RELATED DEVICES FOR FORMING PASSAGeways BETWEEN BLOOD VESSELS OR OTHER ANATOMICAL STRUCTURES

7205 US
 SERIAL NUMBER: 09117516 FILING DATE: 01/21/1999
 PATENT NUMBER: 6638293 ISSUE DATE: 10/28/2003
 TITLE: METHODS AND APPARATUS FOR BLOCKING FLOW THROUGH BLOOD VESSELS

7204 US
 SERIAL NUMBER: 08896307 FILING DATE: 06/28/1997
 PATENT NUMBER: 6071292 ISSUE DATE: 06/06/2000
 TITLE: TRANSLUMINAL METHODS AND DEVICES FOR CLOSING, FORMING ATTACHMENTS TO, AND/OR FORMING ANASTOMOTIC JUNCTIONS IN, LUMINAL ANATOMICAL STRUCTURES

7207 DIV1
 SERIAL NUMBER: 09543251 FILING DATE: 04/05/2000
 PATENT NUMBER: 6287317 ISSUE DATE: 09/11/2001
 TITLE: TRANSLUMINAL METHODS AND DEVICES FOR CLOSING, FORMING ATTACHMENTS TO, AND/OR FORMING ANASTOMOTIC JUNCTIONS IN, LUMINAL ANATOMICAL STRUCTURES

7207 DIV2
 SERIAL NUMBER: 09908337 FILING DATE: 07/18/2001
 PATENT NUMBER: 6491707 ISSUE DATE: 12/10/2002
 TITLE: TRANSLUMINAL METHODS AND DEVICES FOR CLOSING, FORMING ATTACHMENTS TO, AND/OR FORMING ANASTOMOTIC JUNCTIONS IN, LUMINAL ANATOMICAL STRUCTURES

7208 JS
 SERIAL NUMBER: 07700625 FILING DATE: 05/15/1991
 PATENT NUMBER: 5193546 ISSUE DATE: 03/16/1993
 TITLE: CORONARY INTRAVASCULAR ULTRASOUND IMAGING METHOD AND APPARATUS

7209 CIP1
 SERIAL NUMBER: 08970694 FILING DATE: 11/14/1997
 PATENT NUMBER: 6432127 ISSUE DATE: 08/13/2002
 TITLE: DEVICES FOR FORMING AND/OR MAINTAINING CONNECTIONS BETWEEN ADJACENT ANATOMICAL CONDUITS

7208 JS
 SERIAL NUMBER: 09056589 FILING DATE: 04/07/1998
 PATENT NUMBER: 6561998 ISSUE DATE: 05/13/2003
 TITLE: TRANSLUMINAL DEVICES, SYSTEMS AND METHODS FOR ENLARGING INTERSTITIAL PENETRATION TRACTS

7201 US
 SERIAL NUMBER: 09282276 FILING DATE: 03/31/1999
 PATENT NUMBER: 6544230 ISSUE DATE: 04/08/2003
 TITLE: CATHETERS, SYSTEMS AND METHODS FOR PERCUTANEOUS IN SITU ARTERIO-VEINOUS BYPASS

72012 us
 SERIAL NUMBER: 09282774 FILING DATE: 03/31/1999
 PATENT NUMBER: 6375615 ISSUE DATE: 04/23/2002
 TITLE: TISSUE PENETRATING CATHETERS HAVING INTEGRAL IMAGING TRANSDUCERS AND THEIR METHODS OF USE

72013 us
 SERIAL NUMBER: 09505149 FILING DATE: 02/15/2000
 PATENT NUMBER: 6589164 ISSUE DATE: 07/08/2003
 TITLE: STERILITY BARRIERS FOR INSERTION OF NON-STERILE APPARATUS INTO CATHETERS OR OTHER MEDICAL DEVICES

72014 us
 SERIAL NUMBER: 09507139 FILING DATE: 02/18/2000
 PATENT NUMBER: 6508824 ISSUE DATE: 01/21/2003
 TITLE: CATHETER-BASED METHODS, APPARATUSES AND SYSTEMS FOR ENLARGING BLOOD VESSELS TO FACILITATE THE FORMATION OF PENETRATION TRACTS, FISTULAS AND/OR BLOOD FLOW CHANNELS

72016 us
 SERIAL NUMBER: 08616588 FILING DATE: 03/15/1996
 PATENT NUMBER: 5830224 ISSUE DATE: 11/03/1998
 TITLE: CATHETER APPARATUS AND METHODOLOGY FOR GENERATING A FISTULA ON-DEMAND BETWEEN CLOSELY ASSOCIATED BLOOD VESSELS AT A PRE-CHOSEN ANATOMIC SITE IN-VIVO

72016 DIV1
 SERIAL NUMBER: 09134995 FILING DATE: 08/17/1998
 PATENT NUMBER: 6099542 ISSUE DATE: 08/08/2000
 TITLE: CATHETER APPARATUS AND METHODOLOGY FOR GENERATING A FISTULA ON-DEMAND BETWEEN CLOSELY ASSOCIATED

72016 con 1
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 SERIAL NUMBER: 09960003 FILING DATE: 09/21/2001
 PATENT NUMBER: 6669709 ISSUE DATE: 12/30/2003
 TITLE: CATHETER APPARATUS AND METHODOLOGY FOR GENERATING A FISTULA ON-DEMAND BETWEEN CLOSELY ASSOCIATED BLOOD VESSELS AT A PRE-CHOSEN ANATOMIC SITE IN-VIVO

72018 us
 SERIAL NUMBER: 09329386 FILING DATE: 06/10/1999
 PATENT NUMBER: 6126649 ISSUE DATE: 10/03/2000
 TITLE: STEERABLE CATHETER WITH EXTERNAL GUIDEWIRE AS CATHETER TIP DEFLECTOR

(Not on card) * 72019 us
 SERIAL NUMBER: 09013657 (09/009 135) FILING DATE: 01/26/1998
 PATENT NUMBER: 6015504 (6,015,405) ISSUE DATE: 01/18/2000
 TITLE: METHOD FOR INCREASING THE SPF RATING OF TEXTILE FIBERS BY TREATMENT WITH TRIAZINYLDIAMINO STILBENE COMPOUNDS

72020 33
 SERIAL NUMBER: 08714466 FILING DATE: 09/16/1996
 PATENT NUMBER: 5655548 ISSUE DATE: 08/12/1997
 TITLE: METHOD FOR TREATMENT OF ISCHEMIC HEART DISEASE BY PROVIDING TRANSVENOUS MYOCARDIAL PERFUSION

72020 cnp1
 SERIAL NUMBER: 08929076 FILING DATE: 09/15/1997
 PATENT NUMBER: 6447539 ISSUE DATE: 09/10/2002
 TITLE: METHOD AND APPARATUS FOR TRESTING ISCHEMIC HEART DISEASE BY PROVIDING TRANSVENOUS MYOCARDIAL PERFUSION

* 72019 us
 * Currently Assigned to Triacordia, LLC ✓ w/STOUT

72020
CIP 2
SERIAL NUMBER: 09208807 FILING DATE: 12/09/1998
PATENT NUMBER: 6186972 ISSUE DATE: 02/13/2001
TITLE: METHODS AND APPARATUS FOR TREATING ISCHEMIC HEART DISEASE BY PROVIDING TRANSVENOUS MYOCARDIAL PERFUSION

(NOT
202
CITE)
SERIAL NUMBER: 08285468 09/15/1997 P2022.05 FILING DATE: 08/03/1994
PATENT NUMBER: 5569145 (6,569,145) ISSUE DATE: 10/29/1996
TITLE: METHOD AND APPARATUS FOR MANUFACTURING A SACK BOTTOM

72020
CIP 1
SERIAL NUMBER: 08798700 FILING DATE: 02/12/1997
PATENT NUMBER: 5824071 ISSUE DATE: 10/20/1998
TITLE: APPARATUS FOR TREATMENT OF ISCHEMIC HEART DISEASE BY PROVIDING TRANSVENOUS MYOCARDIAL PERFUSION

72023.05
SERIAL NUMBER: 09766502 FILING DATE: 01/17/2001
PATENT NUMBER: 6602241 ISSUE DATE: 08/05/2003
TITLE: METHODS AND APPARATUS FOR ACUTE OR CHRONIC DELIVERY OF SUBSTANCES OR APPARATUS TO EXTRAVASCULAR TREATMENT SITES

72030
CIP 1
SERIAL NUMBER: 09048147 FILING DATE: 03/25/1998
PATENT NUMBER: 6283951 ISSUE DATE: 09/04/2001
TITLE: SYSTEMS AND METHODS FOR DELIVERING DRUGS TO SELECTED LOCATIONS WITHIN THE BODY

72009
CIP 2
SERIAL NUMBER: 09089032 FILING DATE: 06/02/1998
PATENT NUMBER: 6330884 ISSUE DATE: 12/18/2001
TITLE: DEFORMABLE SCAFFOLDING MULTICELLULAR STENT

72031
CIP 1
SERIAL NUMBER: 09933295 FILING DATE: 08/20/2001
PATENT NUMBER: 6613081 ISSUE DATE: 09/02/2003
TITLE: DEFORMABLE SCAFFOLDING MULTICELLULAR STENT

72044
CIP 1
SERIAL NUMBER: 09179737 FILING DATE: 10/27/1998
PATENT NUMBER: 6379319 ISSUE DATE: 04/30/2002
TITLE: SYSTEMS AND METHODS FOR DIRECTING AND SNARING GUIDEWIRES

72044
CIP 1
SERIAL NUMBER: 06504141 FILING DATE: 06/14/1983
PATENT NUMBER: 4774949 (6,774,949) ISSUE DATE: 10/04/1988
TITLE: DEFLECTOR GUIDING CATHETER

72026
PCT
SERIAL NUMBER: FILING DATE:
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0308015
TITLE:

72027
PCT
SERIAL NUMBER: FILING DATE:
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0311284
TITLE:

* per our TVI records
there is no patent file
- see Fugate Agreements

015000/0001 PAGE 9

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

03-02-2004



102681675

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

TransVascular, Inc.
1505-D Adams Drive
Menlo Park, CA 94025

2.26-04

2. Name and address of receiving party(ies):

Medtronic Vascular, Inc.
3576 Unocal Place
Santa Rosa, CA 95403

A Delaware corporation.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: September 9, 2003

4. Application number(s) or patent number(s): See Attached Exhibit A & B

If this document is being filed together with a new application, the filing date of the application is: [Inventor Declaration Execution Date]

A. Patent Application No.(s):

09/708,923; 10/425,543; 60/005,164; 09/181,701; 10/640,998; 60/010,614; 10/425,756; 60/028,922; 08/837,285; 09/710,332; 09/984,222; 10/150,306; 10/438,016; 09/912,122; 10/259,210; 09/911,975; 09/845,372; 10/346,556; 10/370,429; 10/033,836; 09/538,119; 09/960,003; 09/613,875; 09/320,172; 09/794,297; 10/466,622; 10/458,153; 10/467,274; 09/860,147; 10/370,201; 10/391,481; PCT/US03/08015; 10/411,891; PCT/US03/11284; 60/455,015; 09/826,049; 10/617,105; 09/748,109; 09/539,639; 09/179,737 and 10/136,929

B. Patent No.(s):

6,190,353; 6,655,386; 5,830,222; 6,283,983; 6,068,638; 6,159,225; 6,231,687; 6,567,311; 6,016,675; 6,302,875; 6,638,283; 6,071,282; 6,287,317; 6,491,707; 5,193,546; 6,432,127; 6,661,988; 6,544,230; 6,375,615; 6,589,164; 6,508,824; 5,830,224; 6,099,542; 6,669,709; 6,126,649; 6,015,504; 5,655,548; 6,447,539; 6,186,972; 5,824,071; 6,569,145; 5,824,071; 6,602,241; 6,283,951; 6,330,884; 6,613,081; 6,379,319; and 4,774,949

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Robert D. Buyan
Stout, Uxa, Buyan & Mullins, LLP
4 Venture, Suite 300
Irvine, CA 92618

6. Total number of applications and patents involved: 79

7. Total Fee (37 CFR 3.41).....\$3,180.00

☒ Enclosed (Check No. 3333)☐ Authorized to be charged to deposit account if fee is insufficient.

8. Deposit account number: 50-0878

(Attach duplicate copy of this page if paying by deposit account.)

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9. Statement and signature.

Attorney Docket No. MEDTR-000

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Robert D. Buyan

Name of Person Signing

Signature

February 24, 2004

Date

Total number of pages including cover sheet, attachments and document: [Total No. pages 20]

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FINANCE SECTION

PATENT ASSIGNMENT

WHEREAS, TransVascular, Inc., a California corporation ("Assignor"), is the owner of the United States patents and patent applications identified on Exhibit A and of the foreign patents and patent applications identified on the attached Exhibit B; and

WHEREAS, Medtronic AVE, Inc., a Delaware corporation, ("Assignee") desires to acquire the entire right, title and interest in and to the United States and foreign patents and patent applications and in and to the inventions described and claimed therein;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee, its successors and assigns: the entire right, title and interest in and to the patents and patent applications listed on Exhibits A and B hereto including the inventions therein described and claimed; all rights for past infringement thereof; all renewals, reissues, extensions, substitutions, continuations, continuations-in-part, or divisions thereof, or any applications that claim any priority rights thereof; all foreign applications based thereon; and the right to apply for patents in foreign countries in its own name, including the right to claim any priority rights to which such foreign applications are entitled under international conventions, treaties, or otherwise.

Assignor further agrees to execute and deliver without further consideration any further application, assignments or other documents and to perform such other lawful acts as Assignee, its successors and assigns may deem reasonably necessary to fully secure, maintain and enforce its rights, title or interest as specified herein.

Assignor hereby authorizes and requests the appropriate patent offices to issue to Assignee any patents that may be granted in accordance with this Assignment.

TRANSVASCULAR, INC.

By: *NSH*

Name Printed: NSH

Title: CEO

STATE OF CALIFORNIA }

ss.

COUNTY OF Santa Clara

On September 9, 2003, before me, Sharon M. Barbour, personally appeared Norwick B. H. Goodspeed, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Sharon M. Barbour

Notary Signature

Exhibit A
U.S. Patents and Patent Applications

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-018Z	Deflector Guiding Catheter	06/504,141	Parent	14-Jun-83	Issued 4,774,949
TRNSV-020A	Coronary Intravascular Ultrasound Imaging Method and Apparatus	07/700,625	Parent	15-May-91	Issued 5,193,546
TRNSV-054A	Method for Treatment of Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	08/714,466	Parent	16-Sep-96	Issued 5,655,548
TRNSV-054G	Apparatus for Treatment of Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	08/798,700	Divisional	12-Feb-97	Issued 5,824,071
TRNSV-003A	A Device, System and Method for Interstitial Transvascular Intervention	08/730,496	Parent	11-Oct-96	Issued 5,830,222
TRNSV-046A	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	08/616,588	Parent	15-Mar-96	Issued 5,830,224
TRNSV-052A	Device for Forming Holes in Tissue	09/009,135	Parent	20-Jan-98	Issued 6,015,504
212/047	Transvascular TMR Device and Method	08/745,869	Parent	8-Nov-96	Issued 6,042,581
212/067	Transvascular TMR Device and Method	08/819,948	CIP	18-Mar-97	Issued 6,053,911
TRNSV-003C	Methods for Interstitial Transvascular Intervention and Revascularization	09/179,809	Continuation	27-Oct-98	Issued 6,068,638
TRNSV-017A	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	08/896,307	Parent	28-Jun-97	Issued 6,071,292
TRNSV-046G1	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	09/134,995	Divisional	17-Aug-98	Issued 6,099,542
TRNSV-051A	Sterable Catheter with External Guidewire As Catheter Tip Deflector	09/329,386	Parent	10-Jun-99	Issued 6,126,649
TRNSV-003G2	Device for Interstitial Transvascular Intervention and Revascularization	09/181,013	Divisional	27-Oct-98	Issued 6,159,225
TRNSV-054B/B2	Methods and Apparatus for Treating Ischemic Heart Disease by providing Transvenous Myocardial Perfusion	09/208,807	CIP	9-Dec-98	Issued 6,186,972
TRNSV-001A	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	08/730,327	Parent	11-Oct-96	Issued 6,190,353
TRNSV-003G3	Devices for Connecting Anatomical Conduits such as Vascular Structures	09/267,943	Divisional	11-Mar-99	Issued 6,231,587

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-003B	Percutaneous In Situ Coronary Bypass Method and Apparatus	09/192,554	Parent	10-Aug-98	Issued 6,283,983
14768-7001	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	09/048,147	CIP	25-Mar-98	Issued 6,283,951
TRNSV-017G	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	09/543,251	Divisional	5-Apr-00	Issued 6,287,317
TRNSV-015A	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	08/837,294	CIP	11-Apr-97	Issued 6,302,875
14768-7002	Deformable Scaffolding Multicellular Stent	09/089,032	CIP	2-Jun-98	Issued 6,330,884
TRNSV-029A	Tissue Penetrating Catheters having Integral Imaging Transducers and their Methods of Use	09/282,774	Parent	30-Jul-99	Issued 6,375,615
14768-7004	Systems and Methods for Directing and Snaring Guidewires	09/179,737	CIP	27-Oct-98	Issued 6,379,319
TRNSV-022A	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	08/970,694	CIP	14-Nov-97	Issued 6,432,127
TRNSV-054B	Methods and Apparatus for Treating Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	08/929,076	CIP	15-Sep-97	Issued 6,447,539
TRNSV-017G2	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	09/908,337	Continuation	18-Jul-01	Issued 6,491,707
TRNSV-028A	Catheters, Systems and Methods for Percutaneous In Situ Arterio-Venous Bypass	09/282,276	Parent	31-Mar-99	Issued 6,544,230
TRNSV-024A	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	09/056,589	Parent	7-Apr-98	Issued 6,561,998
TRNSV-014US	Methods and Apparatus for Connecting Openings Formed in Adjacent Blood Vessels or Other Anatomical Structures	09/117,520	US/PCT	29-Jul-98	Issued 6,616,675
TRNSV-016US	Methods and Apparatus for Blocking Flow Through Blood Vessels	09/117,516	Parent	29-Jul-98	Pending Allowed
TRNSV-016US-G	Methods and Apparatus for Blocking Flow Through Blood Vessels	TBD	Divisional	29-Aug-03	Pending
TRNSV-005US	A Device, System and Method for Interstitial Transvascular Intervention	09/117,515	Parent	2-Aug-98	Issued 6,567,311
TRNSV-003G1	System and Method for Delivery of Therapeutic Agents to Intracorporeal Sites	09/181,701	Divisional	28-Oct-98	Pending Allowed
TRNSV-003G1-C	System and Method for Delivery of Therapeutic Agents to Intracorporeal Sites	TBD	Continuation	5-Aug-03	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-056A	Pressure-Controlled Continuous Coronary Sinus Occlusion Device and Methods of Use	09/275,797	Parent	25-Mar-99	Issued 6,569,145
TRNSV-037A	Sterility Barriers for Insertion of Non-Sterile Apparatus Into Catheters or Other Medical Devices	09/505,149	Parent	15-Feb-00	Issued 6,589,164
TRNSV-043A	Catheter-Based Methods, Apparatuses and Systems for Enlarging Blood Vessels to Facilitate the Formation of Penetration Tracts, Fistulas and/or Blood Flow Channels	09/507,139	Parent	18-Feb-00	Issued 6,508,824
212/247	Transvascular TMR Device and Method	09/557,628	Continuation	25-Apr-00	Pending
TRNSV-001G	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	09/639,963	Divisional	16-Aug-00	Pending
TRNSV-057A	Methods and Apparatus for Acute or Chronic Delivery of Substances or Apparatus to Extravascular Treatment Sites	09/766,502	Parent	17-Jan-01	Issued 6,602,241
TRNSV-057C	Methods and Apparatus for Acute or Chronic Delivery of Substances or Apparatus to Extravascular Treatment Sites	TBD	Continuation	10-Jun-03	Pending
TRNSV-065A	Methods for Bypassing Total or Near-Total Obstructions in Arteries or other Anatomical Conduits	09/860,147	CIP	17-May-01	Pending
24768-7013	Apparatus and Methods for Creating a Channel Between Adjacent Body Lumens	09/539,639	Parent	30-Mar-00	Pending
212/481	Transvascular TMR Device and Method	TBA	Continuation	15-May-03	Pending
TRNSV-055B/B2	Apparatus for Providing Coronary Retroperfusion and Methods of Use	09/320,172	CIP	26-May-99	Pending
14768-7003	Over-The-Wire Apparatus and Method for Open Surgery Making of a Fluid Connection Between Two neighboring Vessels	09/478,109	Parent	4-Jan-00	Pending
212/245	TransVascular TMR Device and Method	09/536,622	Continuation	28-Mar-00	Pending
TRNSV-044A	Stabilized Tissue Penetrating Catheters	09/538,119	CIP	29-Mar-00	Pending
TRNSV-053A	Transluminally Deliverable Vascular Blockers and Methods for Facilitating Retrograde Flow or Arterial Blood through Veins	09/613,675	Parent	11-Jul-00	Pending
TRNSV-001C	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	09/708,932	Continuation	18-Nov-00	Pending
TRNSV-013BC	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	09/710,332	Continuation	9-Nov-00	Pending
TRNSV-055C	Apparatus for Providing Coronary Retroperfusion and/or Left Ventricular Assist and Methods of Use	09/794,297	Continuation	27-Feb-01	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
24768-7021	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	09/826,049	Divisional	3-Apr-01	Pending
TRNSV-022C	Devices for Forming and/or Maintaining Connections Between Openings in an Anatomical Conduits	09/845,372	Continuation	30-Apr-01	Pending
TRNSV-015G	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	09/912,122	Divisional	24-Jul-01	Pending
TRNSV-022G	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	09/911,975	Divisional	24-Jul-01	Pending
7030190001	Deformable Scaffolding Multicellular Stent	09/933,295	Divisional	20-Aug-01	Pending
TRNSV-046G2C	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	09/960,003	Continuation	21-Sep-01	Pending
TRNSV-013BC2	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	09/994,222	Continuation	26-Nov-01	Pending
TRNSV-029C	Tissue penetrating catheters having integral imaging transducers and their methods of use	10/033,836	Continuation	26-Dec-01	Pending/Allowed
273/098	Systems and Methods for Directing and Snaring Guidewires	10/136,929	Divisional	30-Apr-02	Pending
TRNSV-013BC3	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	10/150,306	Continuation	16-May-02	Pending
TRNSV-017G3	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	10/259,210	Divisional	27-Sep-02	Pending
TRNSV-024C	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	10/346,556	Continuation	17-Jan-03	Pending
TRNSV-065C <i>PADLS CAN 2</i>	Methods for Bypassing Total or Near-Total Obstructions in Arteries or other Anatomical Conduits	10/370,204 10/370,231	Continuation	19-Feb-03	Pending
TRNSV-028G	Catheters, Systems and Methods for Percutaneous In Situ Arterio-Venous Bypass	10/370,429	Divisional	20-Feb-03	Pending
TRNSV-096N	Optically Guided Penetration Catheters and Their Methods of Use	60/455,015	Provisional	13-Mar-03	Pending
TRNSV-083A	Implantable Lumen Occluding Devices and Methods	10/391,481	Parent	17-Mar-03	Pending
TRNSV-086A	Devices and Methods for Transluminal - Interstitial Electrode Placement	10/411,891	Parent	11-Apr-03	Pending
TRNSV-001G2	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	10/425,543	Divisional	29-Apr-03	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-005C	A Device, System and Method for Interstitial Transvascular Intervention	10/425,756	Continuation	29-Apr-03	Pending
TRNSV-014C	Methods and Apparatus for Connecting Openings Formed in Adjacent Blood Vessels or Other Anatomical Structures	10/436,016	Continuation	12-May-03	Pending
TRNSV-064PC	Methods and Apparatus for Guided Transluminal Interventions using Vessel Wall Penetrating Catheters and other Apparatus	PCT/US02/ PCT 03941		6-Feb-02	Pending
TRNSV-083PC	Implantable Lumen Occluding Devices and Methods	PCT/US03/ PCT 08015		17-Mar-03	Pending
TRNSV-086PC	Devices and Methods for Transluminal - Interstitial Electrode Placement	PCT/US03/ PCT 11284		11-Apr-03	Pending
TRNSV-052A	Device for Forming Holes in Tissue	09/009,135	Parent	20-Jan-98	Issued
TRNSV-051A	Steerable Catheter with External Guidewire As Catheter Tip Deflector	09/329,386	Parent	10-Jun-99	Issued 6,015,504
TRNSV-020A	Coronary Intravascular Ultrasound Imaging Method and Apparatus	07/700,625	Parent	15-Mar-91	Issued 6,126,649
TRNSV-003A	A Device, System and Method for Interstitial Transvascular Intervention	08/730,496	Parent	11-Oct-96	Issued 5,830,222
TRNSV-003C	Methods for Interstitial Transvascular Intervention and Revascularization	09/179,809	Continuation	27-Oct-98	Issued 6,068,638
TRNSV-003G2	Device for Interstitial Transvascular Intervention and Revascularization	09/181,013	Divisional	27-Oct-98	Issued 6,159,225
TRNSV-001A	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	08/730,327	Parent	11-Oct-96	Issued 6,190,353
TRNSV-003G3	Devices for Connecting Anatomical Conduits such as Vascular Structures	09/267,943	Divisional	26-Feb-99	Issued 6,231,587
TRNSV-015A	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	08/837,294	CIP	11-Apr-97	Issued 6,302,875
TRNSV-029A	Tissue Penetrating Catheters having Integral Imaging Transducers and their Methods of Use	09/282,774	Parent	31-Mar-99	Issued 6,375,615
14768-7004	Systems and Methods for Directing and Snaring Guidewires	09/179,737	CIP	27-Oct-98	Issued 6,379,319
TRNSV-028A	Catheters, Systems and Methods for Percutaneous In Situ Arterio-Venous Bypass	09/282,276	Parent	31-Mar-99	Issued 6,544,230
TRNSV-024A	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	09/056,589	Parent	7-Apr-98	Issued 6,561,998
TRNSV-014US	Methods and Apparatus for Connecting Openings Formed in Adjacent Blood Vessels or Other Anatomical Structures	09/117,520	Parent	29-Jul-98	Issued 6,616,675
TRNSV-005US	A Device, System and Method for Interstitial Transvascular Intervention	09/117,515	Parent	2-Aug-98	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-003G1	System and Method for Delivery of Therapeutic Agents to Intracorporeal Sites	09/181,701	Divisional	27-Oct-98	Pending
TRNSV-001G	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	09/639,963	Divisional	16-Aug-00	Pending
24768-7013	Apparatus and Methods for Creating a Channel Between Adjacent Body Lumens	09/539,639	Parent	30-Mar-00	Pending
14768-7003	Over-The-Wire Apparatus and Method for Open Surgery Making of a Fluid Connection Between Two neighboring Vessels	09/478,109	Parent	4-Jan-00	Pending
TRNSV-001C	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	09/708,932	Continuation	18-Nov-00	Pending
TRNSV-013BC	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	09/710,332	Continuation	9-Nov-00	Pending
TRNSV-015G	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	09/912,122	Divisional	24-Jul-01	Pending
TRNSV-013BCC	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	09/994,222	Continuation	26-Nov-01	Pending
TRNSV-029C	Tissue penetrating catheters having integral imaging transducers and their methods of use	10/033,836	Continuation	26-Dec-01	Pending
273/098	Systems and Methods for Directing and Snaring Guidewires	10/136,929	Divisional	30-Apr-02	Pending
TRNSV-013BC3	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	10/150,306	Continuation	16-May-02	Pending
TRNSV-024C	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	10/346,556	Continuation	17-Jan-03	Pending
TRNSV-028G	Catheters, Systems and Methods for Percutaneous In Situ Arterio-Venous Bypass	TBA	Divisional	20-Feb-03	Pending
TRNSV-001G2	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	TBA	Divisional	29-Apr-03	Pending
TRNSV-005C	A Device, System and Method for Interstitial Transvascular Intervention	TBA	Continuation	29-Apr-03	Pending
TRNSV-014C	Methods and Apparatus for Connecting Openings Formed in Adjacent Blood Vessels or Other Anatomical Structures	TBA	Continuation	12-May-03	Pending
TRNSV-020A	Coronary Intravascular Ultrasound Imaging Method and Apparatus	07/700,625	Parent	15-Mar-91	Issued 5,193,546
TRNSV-052A	Device for Forming Holes in Tissue	09/009,135	Parent	20-Jan-98	Issued 6,015,504
TRNSV-051A	Steerable Catheter with External Guidewire As Catheter Tip Deflector	09/329,386	Parent	10-Jun-99	Issued 6,126,649

Exhibit B
Foreign Patents and Patent Applications

Outside #	Title	Serial #	Filing Type	Date Filed	Status
14768-7006	Deformable Scaffolding Multicellular Stent	2333764	Foreign	13-May-99	Pending
14768-7009	Deformable Scaffolding Multicellular Stent	2000-551692	Foreign	13-May-99	Pending
14768-7011	Apparatus for Creating a Channel between Adjacent Body Lumens	2395246	Foreign	3-Jan-01	Pending
14768-7014	Apparatus for Creating a Channel between Adjacent Body Lumens	26288/01	Foreign	3-Jan-01	Pending
212/047EP	Transvascular TMR Device and Method	97949393.9	Foreign	7-May-99	Pending
233/023CA	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	2325032	Foreign	21-Sep-00	Pending
233/023EP	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	99909978.1	Foreign	22-Sep-00	Pending
233/023IL	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	138298	Foreign	22-Sep-00	Pending
233/023JP	Systems and Methods for Delivery Drugs to Selected Locations within the Body	2000-537589	Foreign	22-Sep-00	Pending
233/023MX	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	009335	Foreign	22-Sep-00	Pending
234/149AU2	Deformable Scaffolding Multicellular Stent	2002302040	Foreign	15-Nov-02	Pending
234/149EP	Deformable Scaffolding Multicellular Stent	99925626.6	Foreign	13-May-99	Pending
259/301EP	Apparatus for Creating a Channel between Adjacent Body Lumens	TBA	Foreign	3-Jan-01	Pending
259/301JP	Apparatus for Creating a Channel between Adjacent Body Lumens	2001-549556	Foreign	3-Jan-01	Pending
TRNSV-001AUG	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	23046/01	Foreign/ Divisional	16-Feb-01	Pending
TRNSV-001CA	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	2234361	Foreign	8-Apr-98	Pending
TRNSV-001CH	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	96199063.5	Foreign	11-Jun-98	Pending
TRNSV-001EP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	969336499.1	Foreign	13-Apr-98	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-001GEP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	1120160.5	Foreign/ Divisional	22-Aug-01	Pending
TRNSV-001IS	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	124038	Foreign	9-Apr-98	Pending
TRNSV-001GIS	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	151563	Foreign/ Divisional	2-Sep-02	Pending
TRNSV-001JP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	9/515,288	Foreign	13-Apr-98	Pending
TRNSV-001MX	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	982870	Foreign	13-Apr-98	Pending
TRNSV-001RU	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	98108600	Foreign	10-Apr-98	Pending
TRNSV-003AUG	A Device, System and Method for Interstitial Transvascular Intervention	40303/01	Foreign/ Divisional	30-Apr-01	Pending
TRNSV-003CA	A Device, System and Method for Interstitial Transvascular Intervention	2234389	Foreign	6-Jun-98	Pending
TRNSV-003CH	A Device, System and Method for Interstitial Transvascular Intervention	96198967.X	Foreign	13-Apr-98	Pending
TRNSV-003EP	A Device, System and Method for Interstitial Transvascular Intervention	96938622.6	Foreign	13-May-98	Pending
TRNSV-003EPG	A Device, System and Method for Interstitial Transvascular Intervention	03003995.2	Foreign/ Divisional	24-Feb-03	Pending
TRNSV-003IL	A Device, System and Method for Interstitial Transvascular Intervention	124037	Foreign	9-Apr-98	Pending
TRNSV-003JP	A Device, System and Method for Interstitial Transvascular Intervention	9-515211	Foreign	10-Apr-98	Pending
TRNSV-003MX	A Device, System and Method for Interstitial Transvascular Intervention	982872	Foreign	13-Apr-98	Pending
TRNSV-003RU	A Device, System and Method for Interstitial Transvascular Intervention	98108466	Foreign	13-Apr-98	Pending
TRNSV-005AUG	A Device, System and Method for Interstitial Transvascular Intervention	57962/01	Foreign/ Divisional	10-Aug-01	Pending
TRNSV-005CA	A Device, System and Method for Interstitial Transvascular Intervention	2244066	Foreign	24-Jul-98	Pending
TRNSV-005CH	A Device, System and Method for Interstitial Transvascular Intervention	97193556.4	Foreign	2-Aug-98	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-005EP	A Device, System and Method for Interstitial Transvascular Intervention	97904081.3	Foreign	2-Aug-98	Pending
TRNSV-005IL	A Device, System and Method for Interstitial Transvascular Intervention	125415	Foreign	21-Jul-98	Pending
TRNSV-005JP	A Device, System and Method for Interstitial Transvascular Intervention	9-527804	Foreign	31-Jul-98	Pending
TRNSV-005MX	A Device, System and Method for Interstitial Transvascular Intervention	986138	Foreign	30-Jul-98	Pending
TRNSV-013AUG	Methods and Apparatus for Transmyocardial Revascularization	34403/02	Foreign	18-Apr-02	Pending
TRNSV-013BAUG	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	42371/02	Foreign	20-May-02	Pending
TRNSV-013BCA	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	2284720	Foreign	23-Sep-99	Pending
TRNSV-013BEP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	98915524.7	Foreign	23-Nov-99	Pending
TRNSV-013BIL	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	132195	Foreign	4-Oct-99	Pending
TRNSV-013BJP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	10-544160	Foreign	7-Oct-99	Pending
TRNSV-013BMX	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	949273	Foreign	11-Oct-99	Pending
TRNSV-013CA	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	2263672	Foreign	18-Feb-99	Pending
TRNSV-013EP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	97940595.8	Foreign	2-Mar-99	Pending
TRNSV-013JP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	10-511753	Foreign	25-Feb-99	Pending
TRNSV-013MX	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	991847	Foreign	25-Feb-99	Pending
TRNSV-014CA	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	2244079	Foreign	2-Aug-98	Pending
TRNSV-014CH	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	97193245.X	Foreign	2-Aug-98	Pending
TRNSV-014EP	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	97904086.2	Foreign	2-Aug-98	Pending
TRNSV-014IL	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	125416	Foreign	20-Jul-98	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-014JP	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	9-527810	Foreign	27-Jul-98	Pending
TRNSV-014MX	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	986192	Foreign	31-Jul-98	Pending
TRNSV-015CA	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	2285001	Foreign	28-Sep-99	Pending
TRNSV-015EP	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	98920833.5	Foreign	30-Sep-99	Pending
TRNSV-015IL	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	132197	Foreign	4-Oct-99	Pending
TRNSV-015JP	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	10-544059	Foreign	12-Oct-99	Pending
TRNSV-015MX	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	999274	Foreign	11-Oct-99	Pending
TRNSV-016AUG	Methods and Apparatus for Blocking Flow Through Blood Vessels	35101/01	Foreign/ Divisional	10-Apr-01	Pending
TRNSV-016CA	Methods and Apparatus for Blocking Flow Through Blood Vessels	2244080	Foreign	24-Jul-98	Pending
TRNSV-016CH	Methods and Apparatus for Blocking Flow Through Blood Vessels	97193313.8	Foreign	2-Aug-98	Pending
TRNSV-016EP	Methods and Apparatus for Blocking Flow Through Blood Vessels	97904084.7	Foreign	2-Aug-98	Pending
TRNSV-016IL	Methods and Apparatus for Blocking Flow Through Blood Vessels	125417	Foreign	20-Jul-98	Pending
TRNSV-016JP	Methods and Apparatus for Blocking Flow Through Blood Vessels	9-527807	Foreign	31-Jul-98	Pending
TRNSV-016MX	Methods and Apparatus for Blocking Flow Through Blood Vessels	986137	Foreign	30-Jul-98	Pending
TRNSV-017AU	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Lumenal Anatomic	81712/98	Foreign	25-Jun-98	Pending
TRNSV-017CA	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Lumenal Anatomic	2295133	Foreign	24-Dec-99	Pending
TRNSV-017EP	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Lumenal Anatomic	98-931643.5	Foreign	4-Jan-00	Pending
TRNSV-017IL	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Lumenal Anatomic	133670	Foreign	23-Dec-99	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-017JP	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Functions in, Lumenal Anatomic	11-505072	Foreign	28-Dec-99	Pending
TRNSV-017MX	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Functions in, Lumenal Anatomic	9911715	Foreign	15-Dec-99	Pending
TRNSV-022AU	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	13928/99	Foreign	12-May-00	Pending
TRNSV-022AUG	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	2003-200888	Foreign/ Divisional	5-Mar-03	Pending
TRNSV-022CA	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	2308475	Foreign	3-May-00	Pending
TRNSV-022EP	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	98957744-0	Foreign	4-May-00	Pending
TRNSV-022IL	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	135918	Foreign	12-May-00	Pending
TRNSV-022JP	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	2000-520711	Foreign	12-May-00	Pending
TRNSV-024AU	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	2845968	Foreign	6-Oct-00	Pending/ Allowed
TRNSV-024CA	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	2326769	Foreign	28-Sep-00	Pending
TRNSV-024EP	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	99916412.2	Foreign	27-Sep-00	Pending
TRNSV-024IL	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	138724	Foreign	27-Sep-00	Pending
TRNSV-024JP	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	2000-541938	Foreign	6-Oct-00	Pending
TRNSV-024MX	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	009748	Foreign	5-Oct-00	Pending
TRNSV-028AU	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	35477/99	Foreign	31-Mar-99	Pending
TRNSV-028CA	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	2324304	Foreign	18-Sep-00	Pending
TRNSV-028EP	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	99917329.7	Foreign	31-Mar-99	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-028IL	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	138666	Foreign	25-Sep-00	Pending
TRNSV-028JP	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	2000-540765	Foreign	2-Oct-00	Pending
TRNSV-028MX	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	9499	Foreign	28-Sep-00	Pending
TRNSV-029AU	Tissue penetrating catheters having integral imaging transducers and their methods of use	34594/99	Foreign	31-Mar-99	Pending
TRNSV-029CA	Tissue penetrating catheters having integral imaging transducers and their methods of use	2324210	Foreign	31-Mar-99	Pending
TRNSV-029EP	Tissue penetrating catheters having integral imaging transducers and their methods of use	99916238.1	Foreign	31-Mar-99	Pending
TRNSV-029IL	Tissue penetrating catheters having integral imaging transducers and their methods of use	TBA	Foreign	25-Sep-00	Pending
TRNSV-029JP	Tissue penetrating catheters having integral imaging transducers and their methods of use	2000-540872	Foreign	29-Sep-00	Pending
TRNSV-029MX	Tissue penetrating catheters having integral imaging transducers and their methods of use	9497	Foreign	28-Sep-00	Pending
TRNSV-046CA	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	2249237	Foreign	15-Sep-98	Pending
TRNSV-046EP	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	97907789.8	Foreign	15-Oct-98	Pending
TRNSV-046JP	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	532616/97	Foreign	14-Sep-98	Pending
TRNSV-052AU	Device for forming holes in Tissue	58349/99	Foreign	8-Nov-99	Pending
TRNSV-052CA	Device for forming holes in Tissue	2290159	Foreign	16-Nov-99	Pending
TRNSV-052JP	Device for forming holes in tissue	352192/99	Foreign	5-Nov-99	Pending
TRNSV-052NO	Device for forming holes in tissue	19995739	Foreign	23-Nov-99	Pending
TRNSV-054AUG	Apparatus for Treating Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	91329/01	Foreign/ Divisional	14-Nov-01	Pending
TRNSV-054CA	Apparatus for Treating Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	2265775	Foreign	15-Mar-99	Pending
TRNSV-054EP	Apparatus for Treating Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	97941665.8	Foreign	30-Mar-99	Pending
TRNSV-054JP	Apparatus for Treating Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	10-513996	Foreign	16-Mar-99	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-056AU	Pressure-Controlled Continuous Coronary Sinus Occlusion Device and Methods of Use	39137/00	Foreign	24-Sep-01	Pending
TRNSV-056CA	Pressure-Controlled Continuous Coronary Sinus Occlusion Device and Methods of Use	2368163	Foreign	18-Sep-01	Pending
TRNSV-056EP	Pressure-Controlled Continuous Coronary Sinus Occlusion Device and Methods of Use	918304.7	Foreign	27-Sep-01	Pending
TRNSV-056JP	Pressure-Controlled Continuous Coronary Sinus Occlusion Device and Methods of Use	2000-606288	Foreign	25-Sep-01	Pending
14768-7010	Deformable Scaffolding Multicellular Stent	41875/99	Foreign	13-May-99	Issued
TRNSV-001AU	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	74316-96	Foreign	8-Apr-98	Issued 726713
TRNSV-001SI	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	9802432-6	Foreign	13-Apr-98	Issued 52000
TRNSV-003AU	A Device, System and Method for Interstitial Transvascular Intervention	76953/96	Foreign	8-Apr-98	Issued 729466
TRNSV-003SI	A Device, System and Method for Interstitial Transvascular Intervention	9802498-7	Foreign	13-Apr-98	Issued 52058
TRNSV-005AU	A Device, System and Method for Interstitial Transvascular Intervention	18471/97	Foreign	23-Jul-98	Issued 73341
TRNSV-013AU	Methods and Apparatus for Transmyocardial Revascularization	42340/97	Foreign	25-Aug-97	Issued 743142
TRNSV-013BAU	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	69686/98	Foreign	25-Oct-99	Issued 744343
TRNSV-014AU	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	18473/97	Foreign	23-Jul-98	Issued 723785
TRNSV-015AU	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	73581/98	Foreign	29-Oct-99	Issued 749373
TRNSV-016AU	Methods and Apparatus for Blocking Flow Through Blood Vessels	18472/97	Foreign	23-Jul-98	Issued 733332
212/047AU	Transvascular TMR Device and Method	730720	Foreign	10-Nov-97	Pending
24768-7015	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	29054/99	Foreign	17-Mar-99	Pending
TRNSV-022MX	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	004542	Foreign	11-May-00	Pending
TRNSV-052AU	Device for forming holes in Tissue	58349/99	Foreign	8-Nov-99	Pending
TRNSV-052CA	Device for forming holes in Tissue	2290159	Foreign	16-Nov-99	Pending
TRNSV-052JP	Device for forming holes in tissue	352192/99	Foreign	5-Nov-99	Pending
TRNSV-052NO	Device for forming holes in tissue	19995739	Foreign	23-Nov-99	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
14768-7006	Deformable Scaffolding Multicellular Stent	2333764	Foreign	13-May-99	Pending
14768-7009	Deformable Scaffolding Multicellular Stent	2000-551692	Foreign	13-May-99	Pending
14768-7011	Apparatus for Creating a Channel between Adjacent Body Lumens	2395246	Foreign	3-Jan-01	Pending
14768-7014	Apparatus for Creating a Channel between Adjacent Body Lumens	26288/01	Foreign	1-Mar-01	Pending
234/149AU2	Deformable Scaffolding Multicellular Stent	2002302040	Foreign	15-Nov-02	Pending
234/149EP	Deformable Scaffolding Multicellular Stent	99925626.6	Foreign	13-May-99	Pending
259/301EP	Apparatus for Creating a Channel between Adjacent Body Lumens	TBA	Foreign	3-Jan-01	Pending
259/301JP	Apparatus for Creating a Channel between Adjacent Body Lumens	2001-549556	Foreign	3-Jan-01	Pending
TRNSV-001AUG	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	23046/01	Foreign	26-Feb-01	Pending
TRNSV-001CA	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	2234361	Foreign	8-Apr-98	Pending
TRNSV-001CH	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	96199063.5	Foreign	13-Apr-98	Pending
TRNSV-001EP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	969336499.1	Foreign	13-Apr-98	Pending
TRNSV-001GEP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	1120160.5	Foreign	22-Aug-01	Pending
TRNSV-001GIS	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	151563	Foreign	2-Sep-02	Pending
TRNSV-001IS	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	124038	Foreign	9-Apr-98	Pending
TRNSV-001JP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	09/515,288	Foreign	13-Apr-98	Pending
TRNSV-001MX	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	982870	Foreign	13-Apr-98	Pending
TRNSV-001RU	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	98108600	Foreign	13-Apr-98	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-003AUG	A Device, System and Method for Interstitial Transvascular Intervention	40303/01	Foreign	30-Apr-01	Pending
TRNSV-003CA	A Device, System and Method for Interstitial Transvascular Intervention	2234389	Foreign	8-Apr-98	Pending
TRNSV-003CH	A Device, System and Method for Interstitial Transvascular Intervention	96198967.X	Foreign	13-Apr-98	Pending
TRNSV-003EP	A Device, System and Method for Interstitial Transvascular Intervention	96938622.6	Foreign	13-Apr-98	Pending
TRNSV-003IL	A Device, System and Method for Interstitial Transvascular Intervention	124037	Foreign	9-Apr-98	Pending
TRNSV-003JP	A Device, System and Method for Interstitial Transvascular Intervention	9-515211	Foreign	10-Apr-98	Pending
TRNSV-003MX	A Device, System and Method for Interstitial Transvascular Intervention	982872	Foreign	13-Apr-98	Pending
TRNSV-003RU	A Device, System and Method for Interstitial Transvascular Intervention	98108466	Foreign	13-Apr-98	Pending
TRNSV-005AUG	A Device, System and Method for Interstitial Transvascular Intervention	57962/01	Foreign	10-Aug-01	Pending
TRNSV-005CA	A Device, System and Method for Interstitial Transvascular Intervention	2244066	Foreign	2-Aug-98	Pending
TRNSV-005CH	A Device, System and Method for Interstitial Transvascular Intervention	7193556.4	Foreign	2-Aug-98	Pending
TRNSV-005EP	A Device, System and Method for Interstitial Transvascular Intervention	97904081.3	Foreign	2-Aug-98	Pending
TRNSV-005IL	A Device, System and Method for Interstitial Transvascular Intervention	125415	Foreign	2-Aug-98	Pending
TRNSV-005JP	A Device, System and Method for Interstitial Transvascular Intervention	590477	Foreign	2-Aug-98	Pending
TRNSV-005MX	A Device, System and Method for Interstitial Transvascular Intervention	986138	Foreign	30-Jul-98	Pending
TRNSV-013AUG	Methods and Apparatus for Transmyocardial Revascularization	34403/02	Foreign	18-Apr-02	Pending
TRNSV-013BAUG	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	42371/02	Foreign	20-May-02	Pending
TRNSV-013BCA	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	2284720	Foreign	23-Sep-99	Pending
TRNSV-013BEP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	98915524.7	Foreign	13-Apr-98	Pending
TRNSV-013BIL	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	132195	Foreign	4-Oct-99	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-013BJP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	10-544160	Foreign	7-Oct-99	Pending
TRNSV-013BMX	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	949273	Foreign	11-Oct-99	Pending
TRNSV-013CA	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	2263672	Foreign	18-Feb-99	Pending
TRNSV-013EP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	98915524.7	Foreign	26-Aug-96	Pending
TRNSV-013JP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	10-511753	Foreign	25-Aug-97	Pending
TRNSV-013MX	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	991847	Foreign	25-Feb-99	Pending
TRNSV-014CA	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	2244079	Foreign	2-Aug-98	Pending
TRNSV-014CH	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	97193245.X	Foreign	2-Aug-98	Pending
TRNSV-014EP	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	97904086.2	Foreign	2-Aug-98	Pending
TRNSV-014IL	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	125416	Foreign	2-Aug-98	Pending
TRNSV-014JP	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	592668	Foreign	2-Aug-98	Pending
TRNSV-014MX	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	986192	Foreign	31-Jul-98	Pending
TRNSV-015CA	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	2285001	Foreign	10-Apr-98	Pending
TRNSV-015EP	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	98920833.5	Foreign	30-Sep-99	Pending
TRNSV-015IL	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	132197	Foreign	4-Oct-99	Pending
TRNSV-015JP	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	10-544059	Foreign	27-Aug-01	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-015MX	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	999274	Foreign	10-Apr-98	Pending
TRNSV-024AU	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	34737/99	Foreign	6-Apr-99	Pending
TRNSV-024CA	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	2326769	Foreign	6-Apr-99	Pending
TRNSV-024EP	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	99916412.2	Foreign	27-Feb-00	Pending
TRNSV-024IL	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	138724	Foreign	27-Sep-00	Pending
TRNSV-024JP	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	2000-541938	Foreign	6-Oct-00	Pending
TRNSV-024MX	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	9748	Foreign	15-Oct-00	Pending
TRNSV-028AU	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	35477/99	Foreign	31-Mar-99	Pending
TRNSV-028CA	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	2324304	Foreign	18-Sep-00	Pending
TRNSV-028EP	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	99917329.7	Foreign	31-Mar-99	Pending
TRNSV-028IL	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	138666	Foreign	25-Sep-00	Pending
TRNSV-028JP	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	2000-540765	Foreign	2-Oct-00	Pending
TRNSV-028MX	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	9499	Foreign	28-Sep-00	Pending
TRNSV-029AU	Tissue penetrating catheters having integral imaging transducers and their methods of use	34594/99	Foreign	31-Mar-99	Pending
TRNSV-029CA	Tissue penetrating catheters having integral imaging transducers and their methods of use	2324210	Foreign	31-Mar-99	Pending
TRNSV-029EP	Tissue penetrating catheters having integral imaging transducers and their methods of use	99916238.1	Foreign	31-Mar-99	Pending
TRNSV-029IL	Tissue penetrating catheters having integral imaging transducers and their methods of use	TBA	Foreign	25-Sep-00	Pending
TRNSV-029JP	Tissue penetrating catheters having integral imaging transducers and their methods of use	2000-540872	Foreign	29-Sep-00	Pending
TRNSV-029MX	Tissue penetrating catheters having integral imaging transducers and their methods of use	9497	Foreign	28-Sep-00	Pending
TRNSV-052AU	Device for forming holes in Tissue	58349/99	Foreign	8-Nov-99	Pending
TRNSV-052CA	Device for forming holes in Tissue	2290159	Foreign	16-Nov-99	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-052JP	Device for forming holes in tissue	352192/99	Foreign	5-Nov-99	Pending
TRNSV-052NO	Device for forming holes in tissue	19995739	Foreign	23-Nov-99	Pending
14768-7010	Deformable Scaffolding Multicellular Stent	41875/99	Foreign	13-May-99	Issued
TRNSV-001AU	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	23046/01	Foreign	8-Apr-98	Issued 726713
TRNSV-001SI	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	9802432-6	Foreign	13-Apr-98	Issued 52000
TRNSV-003AU	A Device, System and Method for Interstitial Transvascular Intervention	75953/96	Foreign	13-Apr-98	Issued 729466
TRNSV-003SI	A Device, System and Method for Interstitial Transvascular Intervention	9802498-7	Foreign	13-Apr-98	Issued 52058
TRNSV-005AU	A Device, System and Method for Interstitial Transvascular Intervention	18471/97	Foreign	23-Jul-98	Issued 733351
TRNSV-013AU	Methods and Apparatus for Transmyocardial Revascularization	PCT/US97/14801	Foreign	25-Aug-97	Issued 744343
TRNSV-013BAU	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	69686/98	Foreign	13-Apr-98	Issued 744343
TRNSV-014AU	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	199718473	Foreign	2-Aug-98	Issued 723785
TRNSV-015AU	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	73581/98	Foreign	10-Apr-98	Issued 749373